**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. – 39. Canceled.

40. (Previously Presented) A method of integrating a hydrogel to a musculoskeletal tissue, comprising the steps of:

(a) priming the surface of a musculoskeletal tissue by treating the musculoskeletal tissue with a priming agent to create a primed musculoskeletal tissue, wherein the priming agent comprises a polysaccharide with at least one aldehyde group and a first at least one free radical polymerizable group, and the at least one aldehyde group reacts with the musculoskeletal tissue to covalently bind the musculoskeletal tissue and the priming agent;

(b) adding to the primed musculoskeletal tissue a polymerizable agent and a radical photoinitiator, wherein the polymerizable agent comprises a biocompatible polymer having a second at least one free radical polymerizable group; and

(c) reacting the primed musculoskeletal tissue and the polymerizable agent by a radical reaction to create an integrated hydrogel covalently bound to the musculoskeletal tissue,

wherein the radical reaction is between the first and second free radical polymerizable groups, and the first and second free radical polymerizable groups are each independently selected from the group consisting of an acrylate, diacrylate, oligoacrylate, methacrylate, dimethacrylate, and oligo methacrylate.

41. Canceled.

42. (Previously presented) The method of claim 40, wherein the musculoskeletal tissue is disposed in a mammal.

43. (Previously presented) The method of claim 40, wherein the polysaccharide is chondroitin sulfate.

44. – 45. Canceled.

46. (Previously presented) The method of claim 40, wherein the reacting step comprises exposing the primed musculoskeletal tissue and the polymerizable agent to a source of electromagnetic radiation.

47. (Previously presented) The method of claim 40, wherein the polymerizable agent comprises biologically active material.

48. (Previously presented) The method of claim 47, wherein the biologically active material comprises autologous cells.

49. (Previously presented) The method of claim 47, wherein the biologically active material comprises a growth factor.

50. – 59. Canceled.

60. (Previously presented) The method of claim 46, wherein the musculoskeletal tissue is a bone or cartilage tissue.

61. (Previously presented) The method of claim 46, wherein the electromagnetic radiation is ultraviolet radiation.